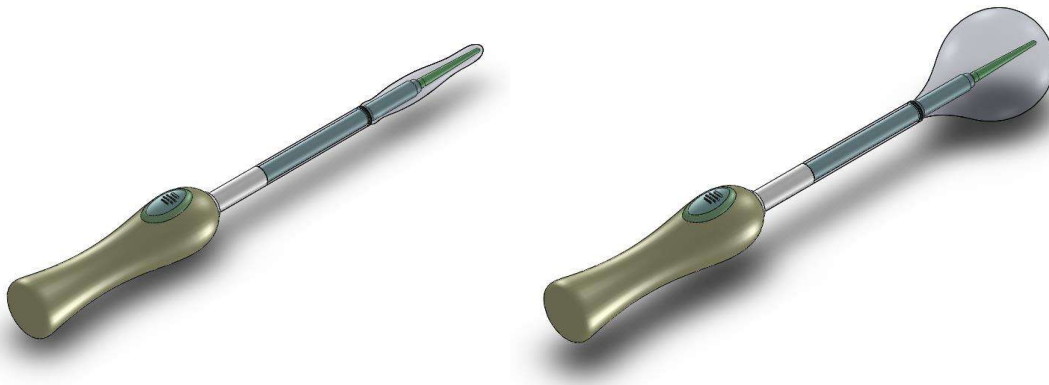


CASE STUDY – CAD 208 WEEK 4

PROJECT: Pap test device controlled break tip

A major medical device manufacturer has developed a new device for performing Pap tests. In clinical studies it was discovered that the newly designed instrument may accidentally puncture the soft internal tissue surrounding the cervix.

Your task is to enhance the design to prevent the balloon insertion tip from accidentally puncturing the recipient, it is decided that you should focus on designing the tip to fail (break) within a pressure limit of 4 lbs. Redesign is required. Write a minimum two page report on your findings with visuals (FOS2 & Stress plot).



MATERIAL: Delrin

